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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,355	03/30/2006	Ki Hong Lee	1114.002	9252
	7590 10/23/200 AN & ADDITON, P.A	EXAMINER		
	COMMUNITY HOUS	NGUYEN, CHI Q		
CHARLOTTE,	NC 28277	ART UNIT	PAPER NUMBER	
			3635	
		MAIL DATE	DELIVERY MODE	
		10/23/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Occurrence		Ар	plication No.	Applicant(s)	Applicant(s)			
		10	/574,355	LEE, KI HONG	LEE, KI HONG			
Office Action Summary			aminer	Art Unit				
			I Q. NGUYEN	3635				
 Period for l	The MAILING DATE of this commur Reply	ication appears	on the cover sheet w	ith the correspondence a	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>03</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠ R	esponsive to communication(s) file	ed on <i>30 March</i>	2006					
· <u> </u>	•	2b)⊠ This actio						
'		<i>7</i> —		ters, prosecution as to th	e merits is			
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition	n of Claims							
4)⊠ C	4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.							
4a	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
·	laim(s) <u>1-12</u> is/are rejected.							
· ·	laim(s) is/are objected to.							
	laim(s) are subject to restri	ction and/or ele	ction requirement.					
Application	n Papers							
9)□ Th	e specification is objected to by th	e Examiner						
•			accepted or b)⊠ ob	iected to by the Examine	er			
•	10)☑ The drawing(s) filed on <u>30 March 2006</u> is/are: a)☐ accepted or b)☑ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority un	der 35 U.S.C. § 119							
	-	for foreign prior	rity under 35 U.S.C. 8	\$ 119(a)-(d) or (f)				
•	2) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
/—	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 							
	<u> </u>							
J.	_ , , , , , , , , , , , , , , , , , , ,							
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Page Ne(a) Mail Page								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application								
	lo(s)/Mail Date		6) Other:					

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DETAILED ACTION

This Office action is in response to applicant's patent application filed on 3/30/2006.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the protrusions, grooves, ridges and valley portions must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by US Pat.

No. 6,754,992 to Byfield et al.

Claim 1:

Byfield et al. disclose a shear connector having a predetermined length in a T-shaped

steel plate (col. 6, line 31), comprising: a flange 4 and a web 5 having a plurality of

through holes 6-7 (Fig. 26).

Claims 2, 4:

Wherein said web 5 has a plurality of valley portions 6b and ridges 7b in wave shapes.

Claim 3:

Wherein a plurality of protrusions 11 are formed at the flange and the web.

Claim 5:

Byfield et al. disclose a shear connector having a predetermined length in a T-shaped

steel plate (col. 6, line 31), comprising: a flange 23 formed of a plurality of flange pieces

23 wherein said flange pieces are cut-out in biased shapes (Fig. 14); and a web 25

having a plurality of through holes 6-7.

Claims 6, 8:

Wherein said web has a plurality of valley portions 6a and ridges 8b in wave shapes.

Claim 7:

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Wherein a plurality of protrusions 11 are formed at the flange and the web, respectively (Fig. 18).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Pat. No. 6,754,992 to Byfield et al. in view of US Pat. No. 7,409,800 to Budge. Byfield et al. disclose the basic structures for a shear connector as stated above but do not disclose expressly the shear connector is in a Z-shaped. Budge discloses a framing system including a connector 55 in Z-shaped configuration (Figs. 18-19). In view of Budge, it would have been obvious to a person having an ordinary skill in the art at the time the invention was made to provide Byfield different shaped of connectors, e.g. Z-shaped connector, in order to utilize in many ways of connecting frames.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Chi Q. Nguyen whose telephone number is (571) 272-6847. The examiner can normally be reached on Monday-Friday from 7:30 am-4:00 pm.

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If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Chilcot can be reached at (571) 272-6777.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pairdirect.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197.

/C. Q. N./ Examiner, Art Unit 3635 /Richard E. Chilcot, Jr./

Supervisory Patent Examiner, Art Unit 3635